Work Order ID 94677 Page 1 December-19-12 2:27:15 PM Item ID: D4095-043 Accept *N900040100* Setup Start **Revision ID:** Stop Item Name: Wearplate Assembly *4* Start Qty: 4.00 **Start Date:** 1/21/13 **Cust Item ID:** Required Date: 1/21/13 **Req'd Qty:** 4.00 **Customer:** Reference: Run Date:/220-13 Tooling: Date: Approvals: Stop SPC (Y/N): Date: Date: Accept Reject Reject Insp. Sequence ID/ Set Up/ Tool ID Tool # Plan **Operation** Qty Qty Number Stamp Description Code Work Center ID **Run Hours Revision Nbr** Draw Nbr D4095 В 100 0.00 FLOW WATER JET *100* 0.00 Waterjet Memo 1-Cut as per Dwg (D4095-3) FLOW CNC Waterjet 304 1063 Dwg Rev: Prog Rev: 2-Deburr if necessary QC2- Inspect parts off machine FAI/FAIB 0.00 110 Jm 13-1-30 *110* 0.00 QC Memo Quality Control QC8- Inspect parts - second check 120 *120* 0.00 QC Memo

Quality Control

NCR: Y	⁄es	/ No				WORK ORDER NON	I-CO	NFORM	MANCE / UP	DATE	0.4.61		
<u></u>			. ,					1			QA Closed	: Da	te:
Work Orde	er:					DISPOSITION				AGAINST D	EPARTMEN'	T/PROCESS	
	-		·			Rework		1	Skid-tube	Crosstube		Water Jet	Engineering
Part N	۱o					Scrap			Machining	Small Fab	Pr	od. Eng. Coor.	Quality
						Use-as-is		Thern	noforming	Finishing	Rec/Sto	ore/Packaging	
NCR N	No					Work Order Update			Large Fab	Composite		Supplier	
Root					Desc	ription of work order update		Initial	Ac	tion	Sign &		
Cause		Date	Step	Qty		or Non-conformance	C	hief Eng	Desc	ription	Date	Verificatio	n QC Inspector
Doc/Data											ł		
Equip/Tooling	Ш												
Operator													
Material	\Box		1										
Setup	Н												
Other	Ш												
Process	Н												
Supplier	\dashv		1			·							
Training	\vdash												
Unapproved				<u> </u>					CCDV				
1 15						<u> </u>	FAU	LT CATE	GURY				
Landii					Г	General Bend	Г	Grain		Г	Ovalized		Pressure/Forced
	ш	Bending Centre No	at Camaa.		\	BOM/Route	┢	Hardwa		}	—	er tolerance	Temperature/Cure
	${f o}$	Centre No Cracks	or concer	ntric to C) ⁽³⁾ -	Broken/Damaged	-	┥			Part Incorr		Weld
	$\boldsymbol{\vdash}$	Cracks Crushed/	Crimpad		-	⊣	\vdash	⊣ `	ion Incomplete	/Unaloge	 		Wrong Stock Pulled
]	_	Crusneu) Cuffs	crimpeu.		-	Burrs Contamination	\vdash	Mainte	ions Incomplete/	Officiear	Part Lost/N	-	Wrong stock Pulled
	-	Curis Heat Trea			-	Countersink	\vdash	Mislabe		-	Positioned		
	-	neat Trea Inspection		Tubo	-	Cut Too Short	\vdash	Misread		}	Power Loss	_	Other
	-	Ripples in	•	une		Drill Holes	\vdash	Offset	ı.	L	rower Loss	o) Juige	Other
	_	Kippies III Torque W		vtrucion	,	Drawing	-		Calibration				
ì		iordae M	aves III E	-vri 02101	'	Intaming	- 1	Jour of C	canbration				

Out of Sequence

Outside Dimensions

DQA:

Date:

Turning Sequence

Wave/Twist in Tube

Finish

Folio

150 *150*

Large Fab

Large Fab

Weld per dwg A/R Hardcoat S.S. Batch M124170

Large Fab

Memo

0.00

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				_	•
$NCR \cdot$	Yes /	No	WORK ORDER NON-CONFORMANCE / UPDATE		
IVCIV.	163 /	140	WORK ONDER NOR CONTONINANCE / OF DATE		

TTCN:	cs / 110				WOM ONDER NOW	JOIN 01			QA Closed:	Date:	:
Work Orde	r·			·	DISPOSITION		•	AGAINST DE	PARTMENT	/PROCESS	
Part N					Rework Scrap		Skid-tube Machining	Crosstube Small Fab	4	Water Jet d. Eng. Coor.	Engineering Quality
NCR N	0		••••		Use-as-is Work Order Update	The	rmoforming Large Fab	Finishing Composite	Rec/Sto	re/Packaging Supplier	Other
Root				Descri	ption of work order update	Initial	A	ction	Sign &		
Cause	Date	Step	Qty		or Non-conformance	Chief En	g Des	scription	Date	Verification	QC Inspector
Doc/Data											
quip/Tooling											
Operator							į				
Material											
ietup [·		
Other						İ					
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Supplier											
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					F	AULT CAT	EGORY				
Landin	g Gear				General	,			-	-	_
1	Bending				Bend	Grair	1		Ovalized		Pressure/Forced
	Centre N	ot Conce	ntric to	o/s	BOM/Route	Hard	vare		Over/Under	tolerance	Temperature/Cure
	Cracks				Broken/Damaged	Inspe	ction Incomplete	<u></u>	Part Incorre	ct	Weld
	Crushed/	Crimped	•		Burrs	Instru	ctions Incomplete	e/Unclear	Part Lost/M	issing	Wrong Stock Pulled
	Cuffs				Contamination	Main	tenance		Part Moved		
	Heat Trea	at			Countersink	Misla	beled		Positioned \	Wrong	-
	Inspectio	n Strip in	Tube		Cut Too Short	Misre	ad		Power Loss	/Surge	Other
	Ripples in	n Bend			Drill Holes	Offse	t				
	Torque W	aves in E	xtrusio	n	Drawing	Out o	f Calibration				
	Turning S	equence			Finish	Out o	f Sequence				
	Wave/Tw	ist in Tul	oe .		Folio	Outsi	de Dimensions				

Date: ____

Work Orde				*946	377*			n n waxan wa 184			Page 3
Revision ID:	D4095-043	**************************************		Accept	*N900	040	100)* s	setup Star Stoj	1.7	S1*
Item Name: Start Date: Required Date: Reference:	Wearplate As: 1/21/13 1/21/13	Start Qty: 4.00 Req'd Qty: 4.00	*4* *4*		Cust Item I Customer:	D:			,	IXI	S2*
Approvals:	Process Pla	an:	Date:	Tooling:	Da	ate:		ŀ		"IV	R1*
• •						ate:			Stop	" *N	R2*
Sequence ID/ Work Center II	D	Operation Description	-	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
*160 *160*		QC10- Inspect visual pe	er QSI004- ground welds	0.00				W	13-02-	17	(DAS)
QC Quality Control		Мето		0.00					10.000	ι α	× 83
170	• .	QC5- Inspect part comp	oleteness to step on W/O	0.00							(DAS
170 QC Quality Control		Memo		0.00				9	13-02	19	- <u>~~~</u>

180

120 HandFinish

Hand Finishing

0.00

0.00

Memo

COAT ENTIRE TOP (CONCAVE) SURFACE WITH ROCKGUARD AS PER DWG
A/R ROCKGUARD BATCH: \23887

4 Ø Ø Al

		DQA:	Date:	
NCR· Yes / No	WORK ORDER NON-CONFORMANCE / UPDATE			

										QA Closed:	Date:	
Work Ord	er.					DISPOSITION			AGAINST DE	PARTMENT	/PROCESS	
Part I	 No					Rework Scrap Use-as-is Work Order Update	-1 - 1	Skid-tube Machining noforming Large Fab	Crosstube Small Fab Finishing Composite	4	Water Jet d. Eng. Coor. re/Packaging Supplier	Engineering Quality Other
Root					Descri	ption of work order update	Initial	Ac	tion	Sign &		
Cause		Date	Step	Qty		or Non-conformance	Chief Eng	Desc	ription	Date	Verification	QC Inspector
Doc/Data Equip/Tooling Operator Material Setup Other Process Supplier Training Unapproved												
			1			F	AULT CATE	GORY		1	<u> </u>	
Landi	ing Gea	ar				General						
	Ce Cr Cr Cu Hu In	acks ushed/(iffs eat Trea spection pples in orque W	n Strip in	Tube		Bend BOM/Route Broken/Damaged Burrs Contamination Countersink Cut Too Short Drill Holes Drawing Finish	Instruct Mainte Mislabe Misrea Offset Out of	ior: Incomplete tions Incomplete/ enance eled	/Unclear	Ovalized Over/Under Part Incorre Part Lost/M Part Moved Positioned V	ct issing Vrong	Pressure/Forced Temperature/Cure Weld Wrong Stock Pulled Other
	-		ist in Tul			Folio	<u> </u>	e Dimensions				

Work Orde December-19-12				*946	377*						Page 4	_
tem ID: Revision ID: tem Name:	D4095-043 Wearplate As	sembly	· · · · · · · · · · · · · · · · · · ·	Accept	*N900	040	100)* s	etup Star Stop	1.71	S1* S2*	
Start Date: Required Date: Reference:	1/21/13	Start Qty: 4.00 Req'd Qty: 4.00	*4* *4*		Cust Item II Customer:	D:		_	G.			
Approvals:		an:	Date:			ite:		R	un Stai Sto	, "I V I	R1* R2*	
Sequence ID/ Work Center II 190 *100* QC Quality Control 200 *200* Packaging Packaging	D	Operation Description QC3- Inspect Part Finish Memo Identify as per dwg & Sto	ock Location: [={2.	Set Up/ Run Hours 0.00 0.00	Tool ID	Tool#	Plan Code	· ·			Insp. Stamp	
210 *210* QC Quality Control		QC21- Final Inspection - Memo	Work Order Release	0.00					13	3/2/1 1	19 H MF 13-2-5	

- 1 y

											DQA:	Date:	
NCR:	Yes	/ No				WORK ORDER NON-C	100	NFORM	//ANCE / UPD/		QA Closed:	Date:	
						DISPOSITION				AGAINST DE			f ·
Work Orde	er:						.	1		AGAINST DE		_	
Part 1						Rework Scrap Use-as-is		t Therm	Skid-tube Machining noforming	Crosstube Small Fab Finishing		Water Jet d. Eng. Coor. re/Packaging	Engineering Quality Other
NCR I	NO.		••••	· · ·		Work Order Update			Large Fab	Composite	}	Supplier	
Root					Descri	ption of work order update		Initial	Actio	n	Sign &		
Cause		Date	Step	Qty		or Non-conformance	Ch	nief Eng	Descrip	otion	Date	Verification	QC Inspector
Doc/Data Equip/Tooling Operator Material Setup Other Process Supplier Training Unapproved													
						F/	AUL	T CATE	GORY				_
Landi		Bending Centre No Cracks Crushed/ Cuffs Heat Trea Inspectio	Crimped. at n Strip in		o/s	General Bend BOM/Route Broken/Damaged Burrs Contamination Countersink Cut Too Short		Instruct Mainte Mislabe Misreac	on Incomplete ions Incomplete/Un nance led	nclear	Ovalized Over/Under Part Incorre Part Lost/M Part Moved Positioned N	ct sissing Vrong	Pressure/Forced Temperature/Cure Weld Wrong Stock Pulled Other
	l	Ripples in	Bend		1	Drill Holes	1	Offset					

Out of Calibration

Out of Sequence

Outside Dimensions

Turning Sequence

Wave/Twist in Tube

Torque Waves in Extrusion

Drawing

Finish

Folio

H:/FORMS/Quality Assurance\approved QA/NCRWO Rev G

Picklist Print

December-19-12 2:27:15 PM

Work Order ID:

94677

Parent Item:

D4095-043

Parent Item Name:

Wearplate Assembly

Start Date: 1/21/13

Required Date: 1/21/13

Start Qty: 4.00

Required Qty: 4.00

Comments:

IPP Rev:A nerw issue DD 10.04.26 verified by:EC

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
M304S16GA 304/316 Sheet .063		Purchased	No	······		100	sf	220.2560	2.275	9. 5789 472			Jm 13-1-30

124428

124428

								DQA:	Date:	
NCR: Yes	/ No			WORK ORDER NON-	CONFORI	MANCE / UP		QA Closed:	Date:	
Work Order:				DISPOSITION			AGAINST DEI	PARTMENT	/PROCESS	
Part No.				Rework Scrap Use-as-is Work Order Update	- 1	Skid-tube Machining noforming Large Fab	Crosstube Small Fab Finishing Composite		Water Jet od. Eng. Coor. re/Packaging Supplier	Engineering Quality Other
Root		Ĭ	1	Description of work order update	Initial		tion	Sign &		
Cause	Date	Step	Qty	or Non-conformance	Chief Eng		ription	Date	Verification	QC Inspector
Doc/Data										
Equip/Tooling										
Operator		İ								
Material										
Setup										
Other										
Process										
Supplier										
Training										
Unapproved						<u> </u>				
				F	AULT CATE	GORY				·
l a malina d	~~~			C 1						

			•	 		
andi	ng Gear		General			_
	Bending	Ве	end	Grain	Ovalized	Pressure/Forced
	Centre Not Concentric to O/S	В	OM/Route	Hardware	Over/Under tolerance	Temperature/Cure
	Cracks	Bı	roken/Damaged	Inspectior Incomplete	Part Incorrect	Weld
	Crushed/Crimped.	Bu	urrs	Instructions Incomplete/Unclear	Part Lost/Missing	Wrong Stock Pulled
	Cuffs		ontamination	Maintenance	Part Moved	
	Heat Treat		ountersink	Mislabeled	Positioned Wrong	_
	Inspection Strip in Tube	Cr	ut Too Short	Misread	Power Loss/Surge	Other
i	Ripples in Bend	D	rill Holes	Offset	 _	
	Torque Waves in Extrusion	D	rawing	Out of Calibration		
	Turning Sequence	Fi	inish	Out of Sequence		
	Wave/Twist in Tube	F	olio	Outside Dimensions		

DART AEROSPACE LTD	Work Order:	94477
Description: Wearplate	Part Number:	D4095-3
Inspection Dwg: D4095 Rev: B		Page 1 of 1

FIRST ARTICLE INSPECTION CHECKLIST

Drawing Dimension	Tolerance	Actual Dimension	Accept	Reject	Method of Inspection	Comments
Ø0.19	+0.005/-0.001	0.190"	-		V	JAMOI
0.300	+/-0.010	0.301	_		V	
0.300	+/-0.010	U.303°	-		V	
2.432	+/-0.010	2.440ª	_		V	
3.227	+/-0.010	3.225"	T- 1		V	
4.06	+/-0.030	4.067	-		V	
2.50	+/-0.030	7.50	_		V	
4.98	+/-0.030	4.985"	-		V	
8.43	+/-0.030	8.43"	_		V	Producer James
11.50	+/-0.030	11.507"			V	
21.750	+/-0.010	21.750	-		T	JL-mo6
3.500	+/-0.010	3.500"	_		V	
12.22	+/-0.030	12.22"	-		T	
6.000	+/-0.010	6.007	-		r	
12.100	+/-0.010	12.100	-		T	
21.00	+/-0.030	21.004			T	
30.000	+/-0.010	30.000	_		Τ	
36.000	+/-0.010	36,000			丁	
38.88	+/-0.030	38.88"	~		T	
0.063	+/-0.010	0.061"	-		V	
			OAS			

		15		
Measured by:	Audited by:	8-89	Preliminary Approval:	
Date: 13-1-30	Date:	13-1-31	Date:	

ſ	Rev	Date	Change	Revised by	Approved
ı	A	11.02.18	New Issue P/O D4095-043	KJ IN	- 11
ı	В	11.11.08	Dimensions updated per Dwg Rev B	KJ SKY	X
				7/	* -















